	Application No.	Applicant(s)	
Notice of Allowability	10/812,869	WADA et al.	
	Examiner	Art Unit	
	Lee, Calvin	2818	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subject	application. If not included on will be mailed in due course. THIS	
1. X This communication is responsive to Pre-Amendment date	ed April 21, 2004.		
2. 🔀 The allowed claim(s) is/are <u>1-13</u> .			
3. \boxtimes The drawings filed on <u>31 March 2004</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unas a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	uitted. Note the attached EXAMINE es reason(s) why the oath or decla	R'S AMENDMENT or NOTICE OF ration is deficient.	
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	son's Patent Drawing Review(PTG. s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	Office action of vings in the front (not the back) of 1(d). . must be submitted. Note the	-
	6. Interview Summa Paper No./Mail D 7. Examiner's Amen	ate	

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Docket: 501.43640X00 WADA et al.

OFFICE ACTION

Allowable Subject Matter

Claims 1-13 are allowed. Following is the examiner's reason for allowance:

The closest art, US 6,820,331 to *Kishimoto et al*, discloses "the vibrational energy generated by the supersonic oscillator serves to selectively remove the affected portion 11 and chips 12 from the film-coated board" [Figs. 5-6 and col. 14]; and a closer art US 2003/0094621 to *Teramae et al* discloses "a vibration system which gives vibration of ultrasonic waves or of a low frequency to the semiconductor wafer 60" [Fig. 19 and ¶ 0042]. None of the cited arts teaches, *inter alia*, a frequency of the vibrations is set to a value within a range of 1 to 100kHz and the amplitude of the vibrations is set to a value within a range of 1 to 50µm.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication from the Examiner should be directed to *Calvin Lee* at (571) 272-1896 from 7:00AM to 5:00PM (Monday-Thursday, Eastern Time). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2825's Supervisory Patent Examiner *David C. Nelms* can be reached at (571) 272-1787.

Any inquiry relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0596. The central fax number is (703) 872-9306 for all communications to be entered (e.g., amendments, remarks, IDS, etc.)

Dated: August 1, 2005

calombe

Supervisory Patent Examiner
Technology Center 2800